

Q. 1 – Q. 5 carry one mark each.

- Q.1 Choose the most appropriate word from the options given below to complete the following sentence.
- The official answered _____ that the complaints of the citizen would be looked into.
- (A) respectably (B) respectfully (C) reputedly (D) respectively
- Q.2 Choose the statement where underlined word is used correctly.
- (A) The minister insured the victims that everything would be all right.
(B) He ensured that the company will not have to bear any loss.
(C) The actor got himself ensured against any accident.
(D) The teacher insured students of good results.
- Q.3 Which word is not a synonym for the word *vernacular*?
- (A) regional (B) indigenous (C) indigent (D) colloquial
- Q.4 Mr. Vivek walks 6 meters North-east, then turns and walks 6 meters South-east, both at 60 degrees to east. He further moves 2 meters South and 4 meters West. What is the straight distance in metres between the point he started from and the point he finally reached?
- (A) $2\sqrt{2}$
(B) 2
(C) $\sqrt{2}$
(D) $1/\sqrt{2}$
- Q.5 Four cards are randomly selected from a pack of 52 cards. If the first two cards are kings, what is the probability that the third card is a king?
- (A) $4/52$ (B) $2/50$ (C) $(1/52) \times (1/52)$ (D) $(1/52) \times (1/51) \times (1/50)$

Q. 6 – Q. 10 carry two mark each.

- Q.6 The word similar in meaning to 'dreary' is
- (A) cheerful
(B) dreamy
(C) hard
(D) dismal
- Q.7 The given question is followed by two statements; select the most appropriate option that solves the question.
- Capacity of a solution tank A is 70% of the capacity of tank B. How many gallons of solution are in tank A and tank B?
- Statements:
- (I) Tank A is 80% full and tank B is 40% full.
(II) Tank A if full contains 14,000 gallons of solution.
- (A) Statement I alone is sufficient.
(B) Statement II alone is sufficient.
(C) Either statement I or II alone is sufficient.
(D) Both the statements I and II together are sufficient.

- Q.8 How many four digit numbers can be formed with the 10 digits 0, 1, 2, ..., 9 if no number can start with 0 and if repetitions are not allowed?
- Q.9 Read the following table giving sales data of five types of batteries for years 2006 to 2012:

Year	Type I	Type II	Type III	Type IV	Type V
2006	75	144	114	102	108
2007	90	126	102	84	126
2008	96	114	75	105	135
2009	105	90	150	90	75
2010	90	75	135	75	90
2011	105	60	165	45	120
2012	115	85	160	100	145

Out of the following, which type of battery achieved highest growth between the years 2006 and 2012?

- (A) Type V
(B) Type III
(C) Type II
(D) Type I
- Q.10 There are 16 teachers who can teach Thermodynamics (TD), 11 who can teach Electrical Sciences (ES), and 5 who can teach both TD and Engineering Mechanics (EM). There are a total of 40 teachers. 6 cannot teach any of the three subjects, i.e. EM, ES or TD. 6 can teach only ES. 4 can teach all three subjects, i.e. EM, ES and TD. 4 can teach ES and TD. How many can teach both ES and EM but not TD?
- (A) 1 (B) 2 (C) 3 (D) 4

END OF THE QUESTION PAPER